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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)


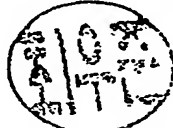
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Applicant's or agent's file reference FP03046PC		FOR FURTHER ACTION	See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)
International application No. PCT/KR2003/002063	International filing date (day/month/year) 07 OCTOBER 2003 (07.10.2003)	Priority date (day/month/year) 07 OCTOBER 2002 (07.10.2002)	
International Patent Classification (IPC) or national classification and IPC IPC7 E02D 17/04			
Applicant HAN, Man-Yop			

<p>1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.</p> <p>2. This REPORT consists of a total of <u>3</u> sheets, including this cover sheet.</p> <p><input checked="" type="checkbox"/> This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).</p> <p>These annexes consist of a total of <u>7</u> sheets.</p>	
<p>3. This report contains indications relating to the following items:</p> <p>I <input checked="" type="checkbox"/> Basis of the report</p> <p>II <input type="checkbox"/> Priority</p> <p>III <input type="checkbox"/> Non-establishment of opinion with regard to novelty, inventive step and industrial applicability</p> <p>IV <input type="checkbox"/> Lack of unity of invention</p> <p>V <input checked="" type="checkbox"/> Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement</p> <p>VI <input type="checkbox"/> Certain documents cited</p> <p>VII <input type="checkbox"/> Certain defects in the international application</p> <p>VIII <input type="checkbox"/> Certain observations on the international application</p>	

Date of submission of the demand 06 MAY 2004 (06.05.2004)	Date of completion of this report 27 JANUARY 2005 (27.01.2005)
Name and mailing address of the IPEA/KR  Korean Intellectual Property Office 920 Dunsan-dong, Seo-gu, Daejeon 302-701, Republic of Korea Facsimile No. 82-42-472-7140	Authorized officer CHOI, Woo Joon Telephone No. 82-42-481-5794 

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/KR2003/002063

I. Basis of the report

1. With regard to the elements of the international application:*

- ☐ the international application as originally filed
- ☒ the description:
 pages 1 - 23, as originally filed
 pages _____, filed with the demand
 pages _____, filed with the letter of _____
- ☒ the claims:
 pages _____, as originally filed
 pages _____, as amended (together with any statement) under Article 19
 pages _____, filed with the demand
 pages 24 - 30, filed with the letter of 08/12/2004
- ☒ the drawings:
 pages 1 - 38, as originally filed
 pages _____, filed with the demand
 pages _____, filed with the letter of _____
- ☐ the sequence listing part of the description:
 pages _____, as originally filed
 pages _____, filed with the demand
 pages _____, filed with the letter of _____

2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language English which is

- ☐ the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).
- ☒ the language of publication of the international application (under Rule 48.3(b)).
- ☐ the language of the translation furnished for the purposes of international preliminary examination (under Rules 55.2 and/or 55.3).

3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

- ☐ contained in the international application in written form.
- ☐ filed together with the international application in computer readable form.
- ☐ furnished subsequently to this Authority in written form.
- ☐ furnished subsequently to this Authority in computer readable form.
- ☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- ☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

4. ☒ The amendments have resulted in the cancellation of:

- ☒ the description, pages NONE
- ☒ the claims, Nos. 7
- ☒ the drawings, sheets NONE

5. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**

* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this opinion as "originally filed." and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17).

** Any replacement sheet containing such amendments must be referred to under item I and annexed to this report.

INTERNATIONAL PRELIMINARY EXAMINATION

International application No.

PCT/KR2003/002063

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**1. Statement**

Novelty (N)	Claims	1-6, 8-26	YES
	Claims	NONE	NO
Inventive step (IS)	Claims	1-6, 8-26	YES
	Claims	NONE	NO
Industrial applicability (IA)	Claims	1-6, 8-26	YES
	Claims	NONE	NO

2. Citations and explanations (Rule 70.7)**1. Subject-Matter**

This statement is based on the amended claims 1-6 and 8-26 filed with the letter of December 8, 2004. The subject-matter of the present application relates to a prestressed support system for prestressing supporting members by using tendons in vertical piles such as H-beams and horizontal piles such as wales when an underground structure is built.

2. Prior Art

D1: KR 10-188465 B1 (12 January 1999)
D2: JP 2000-297590 A (24 October 2000)

D1 relates to a sheathing method by prestressing, comprising the steps of: inserting an excavation pile in a longitudinal direction; installing a wale in a horizontal direction on a front surface of the pile and supporting the connection corner by a strut; attaching a double wale onto the surface of the wale by a bolt; installing a bracket at both ends of the double wale and fixing the bracket thereto by an anchor block; and inserting a cable into the hole of the bracket and coupling a nut with a sleeve which is pressed by said cable, thereby maintaining the tension of the cable, generating a prestress moment on the double wale, and resisting the earth pressure.

D2 relates to an excavation wall construction method requiring no earth retaining timbering for performing construction or reconstruction in a narrow space and for decreasing the construction time and construction cost.

3. Novelty

Neither of the available prior art documents D1 and D2 discloses or suggests the subject-matter of the present application. Therefore, novelty can be acknowledged for the subject-matter of claims 1-6 and 8-26 of the present application.

4. Inventive Step

According to the detailed description and the claims amended by the amended sheet of 2004.12.08, the present application has several advantages. Therefore, an inventive step can be acknowledged for the subject-matter of claims 1-6 and 8-26 of the present application.

5. Industrial Applicability

Industrial applicability can be acknowledged for the subject-matter of claims 1-6 and 8-26 of the present application.